

IN THE CLAIMS

Cancel claims 1-21 and add new claims 22-41, reading as follows:

--22. A microphone comprises:

a diaphragm which has a first diaphragm surface which is oriented towards a sound source and on which sound waves impinge and a second diaphragm surface which is at least partly acoustically separated from the first diaphragm surface, and which faces away from the sound source;

at least one, slot-shaped, sound inlet, through which sound waves can go to the second diaphragm surface and which forms substantially an acoustic inductance so that at least a part of the sound waves to be picked up is passed with a delay to the second diaphragm surface; and

at least one damping element;

said sound inlet having an acoustic resistance which is less than the acoustic resistance of the damping element.

23. The microphone as set forth in claim 22, wherein the damping element is formed by a sound passage which is provided with acoustic damping material and which connects a cavity to the volume delimited by the second diaphragm surface.

24. The microphone as set forth in claim 22, wherein the sound inlet is of a substantially rectangular cross section.

25. The microphone as set forth in claim 24, wherein the height of the sound inlet is less than the length thereof, wherein the sound flow is along the longitudinal direction of the sound inlet and the length of the sound inlet is again less than the width thereof.

26. The microphone as set forth in claim 25, wherein the width of the sound inlet substantially corresponds to the periphery of the microphone.

27. The microphone as set forth in claim 26, wherein the sound inlet is interrupted only by support portions.

28. The microphone as set forth in claim 22, wherein the diaphragm is connected to a diaphragm fixing portion.

29. The microphone as set forth in claim 23, wherein a closure element is arranged in front of a mouth of the sound duct and has an opening which substantially correspond to the mouth opening of the sound passage and which is provided with the acoustic damping material.

30. The microphone as set forth in claim 28, wherein the diaphragm fixing portion has an orifice which leads from a rear side of the microphone which faces away from a sound source to the second diaphragm surface and which is substantially closed by a sealing element, the slot-shaped sound inlet being formed between the sealing element and the diaphragm fixing portion.

31. The microphone as set forth in claim 30, wherein the sealing element comprises a porous material.

32. The microphone as set forth in claim 30, wherein the porous material is a sintered material.

33. The microphone as set forth in claim 30, wherein the cross section of the slot-shaped sound inlet is substantially formed by a recess in the diaphragm fixing portion, the length of the sound inlet being substantially predetermined by the thickness of the sealing element.

34. The microphone as set forth in claim 30, wherein the sealing element is substantially annular.

35. The microphone as set forth in claim 34, wherein the diaphragm fixing portion has an annular groove in which the sealing element is arranged.

36. The microphone as set forth in claim 34, wherein the cross section of the slot-shaped sound inlet is predetermined by the difference in size between the inside diameter of the diaphragm fixing portion and the outside diameter of the sealing element.

37. The microphone as set forth in claim 30, wherein the sealing element is in one piece with the closure element.

38. The microphone as set forth in claim 28, wherein the diaphragm fixing portion substantially encloses the second diaphragm surface and the sound inlet is formed between a holding portion on the diaphragm and the diaphragm fixing portion.

39. The microphone as set forth in claim 38, wherein the holding portion is a diaphragm ring connected to the diaphragm.

40. The microphone as set forth in claim 39, wherein the slot-shaped sound inlet is formed substantially by recesses in the diaphragm ring.

41. The microphone as set forth in claim 28, wherein a casing portion which is connected to the diaphragm fixing portion and which substantially encloses the second diaphragm surface, the sound inlet being formed between the diaphragm fixing portion and the casing portion.--

IN THE ABSTRACT OF THE DISCLOSURE

Cancel the present Abstract of the Disclosure and substitute therefor the enclosed Abstract of the Disclosure.

REMARKS

Claims 1-21 have been cancelled and new claims 22-41 have been added. The amendments to the claims have been made only to improve the form of the claims for examination purposes.

The specification and abstract have been amended to conform it to U.S. format.